

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

Date of Preparation: May 5, 2021

SUMMARY

Critical updates

- 3096 genomes sampled between March 10, 2020 and April 27, 2021 are included in the analysis
- 240 B.1.1.7 Variant of Concern have been identified (57% increase in new cases since 4/30 update)
- 3 B.1.351 Variant of Concern have been identified (no increase since 4/30 update)
- 37 P.1 Variant of Concern have been identified (68% increase in new cases since 4/30 update)

Notable Updates

- The first B.1.617.1 Variant of Interest has been identified in the state.
 - The sequence deposited by the CDC is missing a key mutation (Spike E484Q) characteristic of most B.1.617.1 isolates.

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- County information is missing in this analysis for 39% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

- <https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>
- <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>
- <https://covariants.org/>
- <https://cov-lineages.org/>
- <https://outbreak.info/situation-reports>
- <https://nextstrain.org/>
- <https://github.com/tewhey-lab/ncov-ME>

Variant	Category	Cumulative Count	Jan 2021	Feb 2021	March 2021	April 2021
P.1	VOC	37	0.0%	0.0%	0.7%	5.9%
B.1.351	VOC	3	0.0%	0.2%	0.3%	0.0%
B.1.1.7	VOC	240	0.0%	1.1%	9.0%	32.2%
B.1.427	VOC	5	0.0%	0.4%	0.1%	0.2%
B.1.429	VOC	108	1.4%	5.7%	8.9%	1.5%
B.1.525	VOI	7	0.0%	0.0%	0.8%	0.2%
B.1.526	VOI	105	0.4%	0.4%	5.5%	11.4%
B.1.526.1	VOI	124	0.0%	0.4%	8.0%	11.7%
B.1.617.1	VOI	1	0.0%	0.0%	0.1%	0.0%
B.1.617.2	VOI	0	0.0%	0.0%	0.0%	0.0%
B.1.617.3	VOI	0	0.0%	0.0%	0.0%	0.0%
P.2	VOI	96	0.4%	6.8%	7.9%	0.8%
Total VOI/VOC Sequenced		726	16	71	294	337
Total Cases Sequenced		3096	703	471	710	528

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month

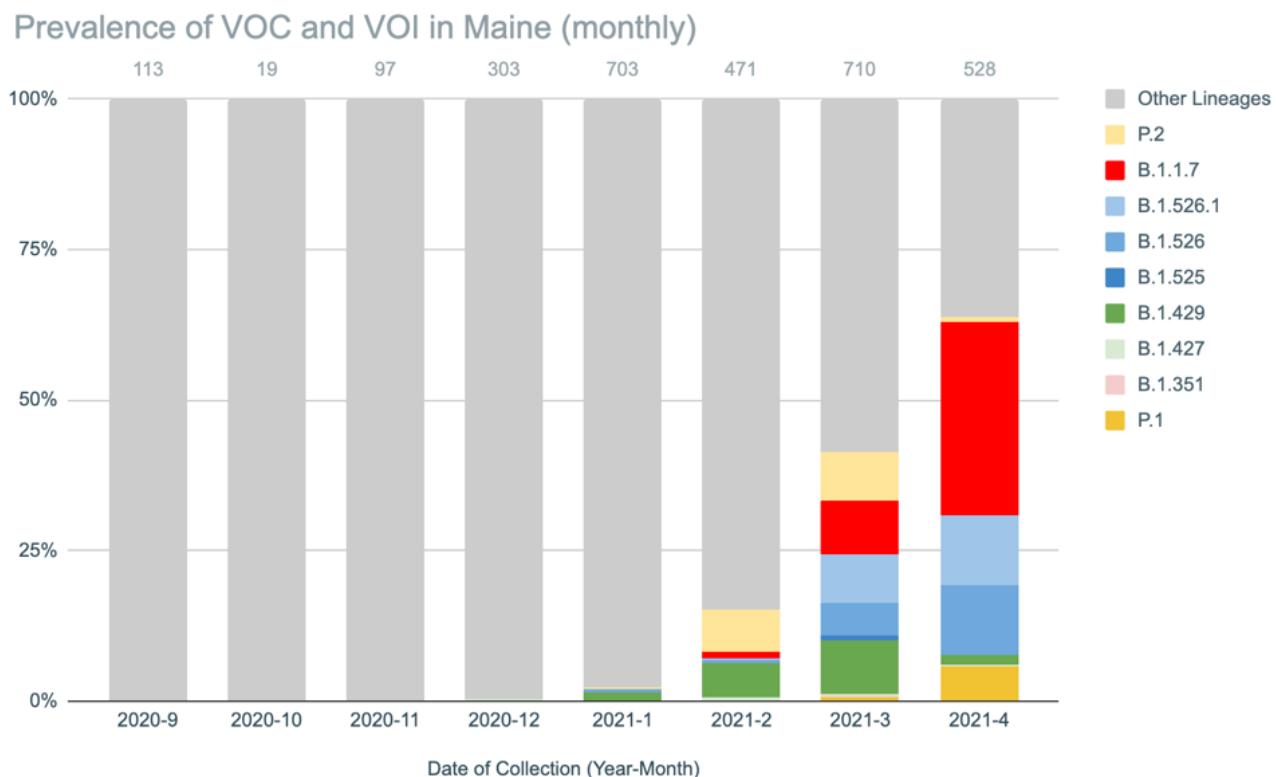


Figure 1: Proportion of samples typed as VOC and VOI by month.

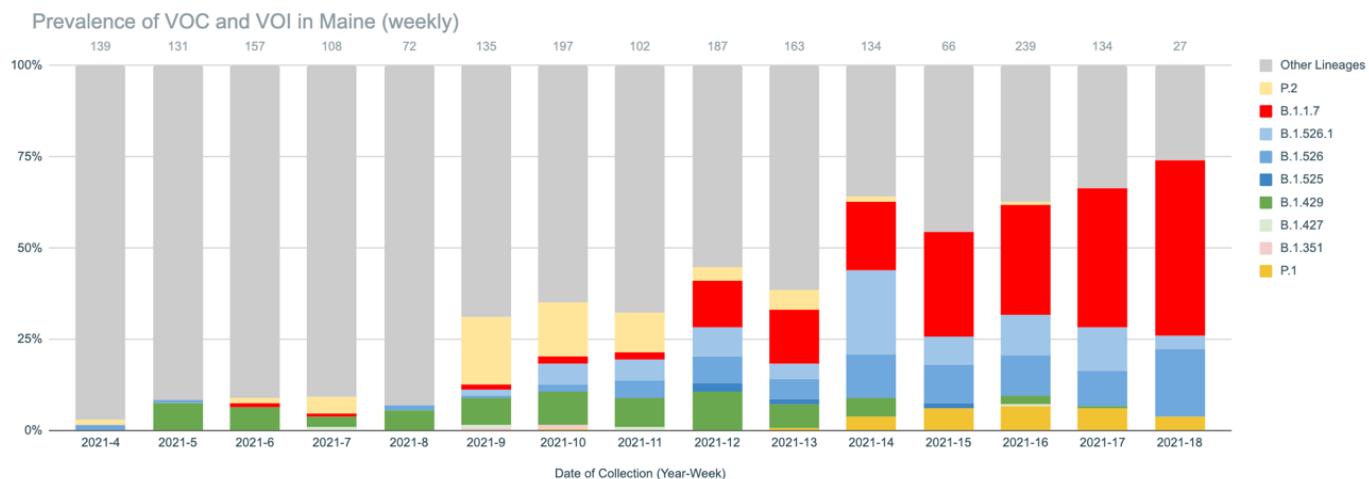


Figure 2: Proportion of samples typed as VOC and VOI by week.

Variant	Category	Cumulative Count	Jan 2021	Feb 2021	March 2021	April 2021
S:E484K	Substitution	214	0.7%	7.6%	12.0%	15.7%
S:L452R	Substitution	242	1.4%	6.6%	17.7%	13.4%

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

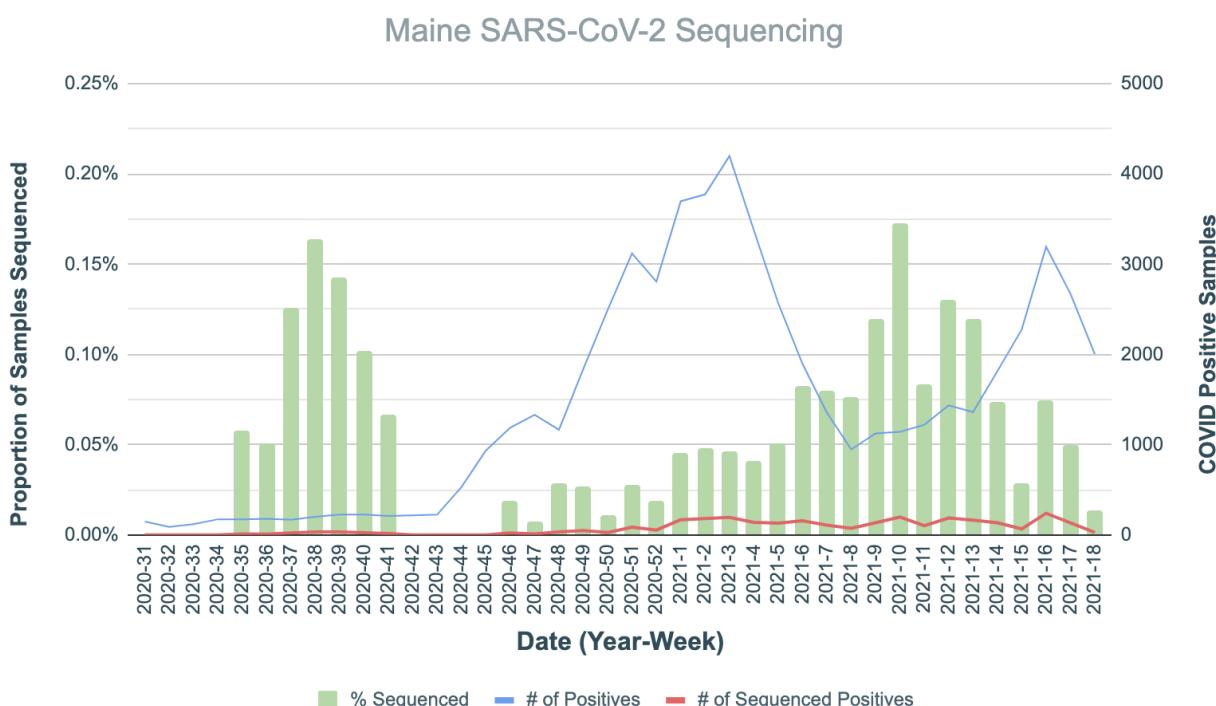


Figure 3: Proportion of COVID-19 positive samples sequenced

Sample Collection Date	JAX	HETL	CDC	Other
Pre-Sept 2020	119	0	0	8
Sept 2020	113	0	0	0
Oct 2020	19	0	0	0
Nov 2020	97	0	0	0
Dec 2020	291	0	12	0
Jan 2021	600	0	88	15
Feb 2021	339	13	114	5
Mar 2021	477	16	199	18
Apr 2021	331	23	160	14

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program. 26 samples are unreported due to missing collection dates.

GENERAL SEQUENCING STATISTICS	DATA
TOTAL GENOMES INCLUDED IN THE ANALYSIS	3096
TOTAL POSITIVE MOLECULAR TESTS	49582
PERCENT SEQUENCED GENOMES INCLUDED IN THE ANALYSIS	6.24%
MAINE GOAL	5%

Table 4: General Sequencing Statistics. Molecular testing includes PCR, isothermal, and NAAT methods. Testing data derived from <https://www.maine.gov/dhhs/mecdc/infectious-disease/epi/airborne/coronavirus/data.shtml> on May 7, 2021. Note: Large national reference lab data may be delayed up to 10 days.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

Variant	County	Cumulative % (total count)	Jan 2021	Feb 2021	March 2021	April 2021
P.1	ANDROSCOGGIN	0.2% (1)	0% (0)	0% (0)	0% (0)	1.6% (1)
P.1	AROOSTOOK	2.8% (3)	0% (0)	0% (0)	0% (0)	21.4% (3)
P.1	CUMBERLAND	1.4% (9)	0% (0)	0% (0)	0.7% (1)	11.1% (8)
P.1	FRANKLIN	1.5% (1)	0% (0)	0% (0)	7.7% (1)	0% (0)
P.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	KENNEBEC	1.0% (2)	0% (0)	0% (0)	0% (0)	7.4% (2)
P.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	OXFORD	2.0% (3)	0% (0)	0% (0)	2.0% (1)	10.0% (2)
P.1	PENOBCOT	1.0% (3)	0% (0)	0% (0)	0% (0)	10.0% (3)
P.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	YORK	0.9% (3)	0% (0)	0% (0)	0% (0)	6.0% (3)
P.1	Total (w/ county information)	1.0% (25)	0% (0)	0% (0)	0.5% (3)	6.6% (22)
P.1	Total	1.2% (37)	0% (0)	0% (0)	0.7% (5)	5.9% (31)
B.1.351	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	CUMBERLAND	0.2% (1)	0% (0)	0.8% (1)	0% (0)	0% (0)
B.1.351	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	LINCOLN	8.0% (2)	0% (0)	0% (0)	25.0% (2)	0% (0)
B.1.351	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	Total (w/ county information)	0.1% (3)	0% (0)	0.2% (1)	0.3% (2)	0% (0)
B.1.351	Total	0.1% (3)	0% (0)	0.2% (1)	0.3% (2)	0% (0)
B.1.1.7	ANDROSCOGGIN	7.3% (32)	0% (0)	1.5% (1)	7.3% (4)	44.3% (27)
B.1.1.7	AROOSTOOK	4.7% (5)	0% (0)	0% (0)	0% (0)	35.7% (5)
B.1.1.7	CUMBERLAND	6.8% (44)	0% (0)	0% (0)	6.6% (10)	47.2% (34)
B.1.1.7	FRANKLIN	9.0% (6)	0% (0)	12.5% (1)	15.4% (2)	75.0% (3)
B.1.1.7	HANCOCK	6.6% (4)	0% (0)	0% (0)	9.1% (1)	37.5% (3)
B.1.1.7	KENNEBEC	1.4% (3)	0% (0)	0% (0)	3.6% (2)	3.7% (1)
B.1.1.7	KNOX	2.4% (1)	0% (0)	0% (0)	0% (0)	33.3% (1)
B.1.1.7	LINCOLN	12.0% (3)	0% (0)	0% (0)	0% (0)	50.0% (3)
B.1.1.7	OXFORD	6.1% (9)	0% (0)	0% (0)	13.7% (7)	10.0% (2)
B.1.1.7	PENOBCOT	3.3% (10)	0% (0)	0% (0)	4.5% (2)	26.7% (8)
B.1.1.7	SAGADAHOC	2.7% (1)	0% (0)	0% (0)	5.9% (1)	0% (0)
B.1.1.7	SOMERSET/PISCATAQUIS	6.3% (8)	0% (0)	4.2% (1)	3.8% (1)	21.4% (6)
B.1.1.7	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.1.7	WASHINGTON	2.3% (1)	0% (0)	0% (0)	14.3% (1)	0% (0)

B.1.1.7	YORK	9.7% (31)	0% (0)	2.3% (1)	11.9% (14)	32.0% (16)
B.1.1.7	Total (w/ county information)	6.1% (158)	0% (0)	0.9% (4)	7.5% (45)	32.8% (109)
B.1.1.7	Total	7.8% (240)	0% (0)	1.1% (5)	9.0% (64)	32.2% (170)
B.1.427	ANDROSCOGGIN	0.2% (1)	0% (0)	0% (0)	0% (0)	1.6% (1)
B.1.427	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	CUMBERLAND	0.5% (3)	0% (0)	0.8% (1)	0.7% (1)	0% (0)
B.1.427	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	HANCOCK	1.6% (1)	0% (0)	5.9% (1)	0% (0)	0% (0)
B.1.427	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	Total (w/ county information)	0.2% (5)	0% (0)	0.5% (2)	0.2% (1)	0.3% (1)
B.1.427	Total	0.2% (5)	0% (0)	0.4% (2)	0.1% (1)	0.2% (1)
B.1.429	ANDROSCOGGIN	2.1% (9)	0.9% (1)	0% (0)	14.5% (8)	0% (0)
B.1.429	AROOSTOOK	2.8% (3)	0% (0)	0% (0)	0% (0)	21.4% (3)
B.1.429	CUMBERLAND	5.9% (38)	2.5% (4)	10.5% (14)	11.9% (18)	2.8% (2)
B.1.429	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KENNEBEC	2.4% (5)	0% (0)	3.3% (1)	7.3% (4)	0% (0)
B.1.429	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	OXFORD	2.0% (3)	0% (0)	0% (0)	5.9% (3)	0% (0)
B.1.429	PENOBCOT	5.9% (18)	0% (0)	11.5% (6)	22.7% (10)	6.7% (2)
B.1.429	SAGADAHOC	2.7% (1)	0% (0)	0% (0)	5.9% (1)	0% (0)
B.1.429	SOMERSET/PISCATAQUIS	0.8% (1)	0% (0)	0% (0)	3.8% (1)	0% (0)
B.1.429	WALDO	2.5% (1)	0% (0)	0% (0)	5.0% (1)	0% (0)
B.1.429	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	YORK	4.1% (13)	0% (0)	9.1% (4)	6.8% (8)	2.0% (1)
B.1.429	Total (w/ county information)	3.5% (92)	0.8% (5)	5.9% (25)	9.0% (54)	2.4% (8)
B.1.429	Total	3.5% (108)	1.4% (10)	5.7% (27)	8.9% (63)	1.5% (8)
B.1.525	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	FRANKLIN	4.5% (3)	0% (0)	0% (0)	23.1% (3)	0% (0)
B.1.525	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	OXFORD	2.0% (3)	0% (0)	0% (0)	5.9% (3)	0% (0)
B.1.525	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	YORK	0.3% (1)	0% (0)	0% (0)	0% (0)	2.0% (1)
B.1.525	Total (w/ county information)	0.3% (7)	0% (0)	0% (0)	1.0% (6)	0.3% (1)
B.1.525	VOI	0% (7)	0% (0)	0% (0)	0% (6)	0% (1)

B.1.526	ANDROSCOGGIN	3.0% (13)	1.7% (2)	1.5% (1)	3.6% (2)	13.1% (8)
B.1.526	AROOSTOOK	0.9% (1)	0% (0)	0% (0)	0% (0)	7.1% (1)
B.1.526	CUMBERLAND	1.4% (9)	0.6% (1)	0.8% (1)	4.0% (6)	1.4% (1)
B.1.526	FRANKLIN	3.0% (2)	0% (0)	0% (0)	7.7% (1)	25.0% (1)
B.1.526	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526	KENNEBEC	1.9% (4)	0% (0)	0% (0)	3.6% (2)	7.4% (2)
B.1.526	KNOX	26.8% (11)	0% (0)	0% (0)	76.9% (10)	33.3% (1)
B.1.526	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526	OXFORD	2.7% (4)	0% (0)	0% (0)	2.0% (1)	15.0% (3)
B.1.526	PENOBCOT	1.6% (5)	0% (0)	0% (0)	0% (0)	16.7% (5)
B.1.526	SAGADAHOC	13.5% (5)	0% (0)	0% (0)	5.9% (1)	66.7% (4)
B.1.526	SOMERSET/PISCATAQUIS	2.4% (3)	0% (0)	0% (0)	0% (0)	10.7% (3)
B.1.526	WALDO	10.0% (4)	0% (0)	0% (0)	15.0% (3)	100.0% (1)
B.1.526	WASHINGTON	11.6% (5)	0% (0)	0% (0)	71.4% (5)	0% (0)
B.1.526	YORK	3.4% (11)	0% (0)	0% (0)	4.2% (5)	12.0% (6)
B.1.526	Total (w/ county information)	3.0% (77)	0.5% (3)	0.5% (2)	6.0% (36)	10.8% (36)
B.1.526	Total	3.4% (105)	0.4% (3)	0.4% (2)	5.5% (39)	11.4% (60)
B.1.526.1	ANDROSCOGGIN	2.3% (10)	0% (0)	0% (0)	1.8% (1)	14.8% (9)
B.1.526.1	AROOSTOOK	0.9% (1)	0% (0)	0% (0)	0% (0)	7.1% (1)
B.1.526.1	CUMBERLAND	2.5% (16)	0% (0)	0.8% (1)	6.6% (10)	6.9% (5)
B.1.526.1	FRANKLIN	1.5% (1)	0% (0)	0% (0)	7.7% (1)	0% (0)
B.1.526.1	HANCOCK	1.6% (1)	0% (0)	0% (0)	0% (0)	12.5% (1)
B.1.526.1	KENNEBEC	7.7% (16)	0% (0)	0% (0)	14.5% (8)	29.6% (8)
B.1.526.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	LINCOLN	8.0% (2)	0% (0)	0% (0)	0% (0)	33.3% (2)
B.1.526.1	OXFORD	10.1% (15)	0% (0)	0% (0)	15.7% (8)	35.0% (7)
B.1.526.1	PENOBCOT	1.6% (5)	0% (0)	0% (0)	2.3% (1)	13.3% (4)
B.1.526.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SOMERSET/PISCATAQUIS	0.8% (1)	0% (0)	0% (0)	0% (0)	3.6% (1)
B.1.526.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	YORK	8.2% (26)	0% (0)	0% (0)	17.8% (21)	10.0% (5)
B.1.526.1	Total (w/ county information)	3.6% (94)	0% (0)	0.2% (1)	8.3% (50)	13.0% (43)
B.1.526.1	Total	4.0% (124)	0% (0)	0.4% (2)	8.0% (57)	11.7% (62)
B.1.617.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total	0.0% (1)	0% (0)	0% (0)	0.1% (1)	0% (0)
B.1.617.2	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

B.1.617.2	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	VOI	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	ANDROSCOGGIN	0.5% (2)	0% (0)	0% (0)	3.6% (2)	0% (0)
P.2	AROOSTOOK	4.7% (5)	8.7% (2)	9.1% (1)	14.3% (2)	0% (0)
P.2	CUMBERLAND	1.1% (7)	0.6% (1)	0% (0)	4.0% (6)	0% (0)
P.2	FRANKLIN	1.5% (1)	0% (0)	12.5% (1)	0% (0)	0% (0)
P.2	HANCOCK	24.6% (15)	0% (0)	58.8% (10)	45.5% (5)	0% (0)
P.2	KENNEBEC	1.4% (3)	0% (0)	0% (0)	5.5% (3)	0% (0)
P.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	LINCOLN	16.0% (4)	0% (0)	0% (0)	50.0% (4)	0% (0)
P.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	PENOBCOT	3.9% (12)	0% (0)	11.5% (6)	11.4% (5)	3.3% (1)
P.2	SAGADAHOC	8.1% (3)	0% (0)	14.3% (1)	11.8% (2)	0% (0)
P.2	SOMERSET/PISCATAQUIS	20.5% (26)	0% (0)	50.0% (12)	53.8% (14)	0% (0)
P.2	WALDO	5.0% (2)	0% (0)	0% (0)	10.0% (2)	0% (0)
P.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	YORK	0.3% (1)	0% (0)	2.3% (1)	0% (0)	0% (0)
P.2	Total (w/ county information)	3.1% (81)	0.5% (3)	7.5% (32)	7.5% (45)	0.3% (1)
P.2	Total	3.1% (96)	0.4% (3)	6.8% (32)	7.9% (56)	0.8% (4)
	ANDROSCOGGIN	15.6% (68)	2.6% (3)	3.1% (2)	30.9% (17)	75.4% (46)
	AROOSTOOK	17.0% (18)	8.7% (2)	9.1% (1)	14.3% (2)	92.9% (13)
	CUMBERLAND	19.7% (127)	3.8% (6)	13.5% (18)	34.4% (52)	69.4% (50)
	FRANKLIN	20.9% (14)	0% (0)	25.0% (2)	61.5% (8)	100.0% (4)
	HANCOCK	34.4% (21)	0% (0)	64.7% (11)	54.5% (6)	50.0% (4)
	KENNEBEC	15.8% (33)	0% (0)	3.3% (1)	34.5% (19)	48.1% (13)

	KNOX	29.3% (12)	0% (0)	0% (0)	76.9% (10)	66.7% (2)
	LINCOLN	44.0% (11)	0% (0)	0% (0)	75.0% (6)	83.3% (5)
	OXFORD	25.0% (37)	0% (0)	0% (0)	45.1% (23)	70.0% (14)
	PENOBCOT	17.4% (53)	0% (0)	23.1% (12)	40.9% (18)	76.7% (23)
	SAGADAHOC	27.0% (10)	0% (0)	14.3% (1)	29.4% (5)	66.7% (4)
	SOMERSET/PISCATAQUIS	30.7% (39)	0% (0)	54.2% (13)	61.5% (16)	35.7% (10)
	WALDO	17.5% (7)	0% (0)	0% (0)	30.0% (6)	100.0% (1)
	WASHINGTON	14.0% (6)	0% (0)	0% (0)	85.7% (6)	0% (0)
	YORK	27.0% (86)	0% (0)	13.6% (6)	40.7% (48)	64.0% (32)
Total VOI/VOC Sequenced	Total (w/ county information)	20.8% (542)	1.7% (11)	15.7% (67)	40.1% (242)	66.6% (221)
Total VOI/VOC Sequenced	Total	23.2% (726)	2.3% (16)	15.1% (71)	40.6% (294)	63.6% (337)
	ANDROSCOGGIN	436	117	65	55	61
	AROOSTOOK	106	23	11	14	14
	CUMBERLAND	645	160	133	151	72
	FRANKLIN	67	29	8	13	4
	HANCOCK	61	12	17	11	8
	KENNEBEC	209	61	30	55	27
	KNOX	41	23	0	13	3
	LINCOLN	25	5	2	8	6
	OXFORD	148	17	18	51	20
	PENOBCOT	304	99	52	44	30
	SAGADAHOC	37	5	7	17	6
	SOMERSET/PISCATAQUIS	127	24	24	26	28
	WALDO	40	3	6	20	1
	WASHINGTON	43	18	9	7	2
	YORK	319	39	44	118	50
Total Cases Sequenced	Total (w/ county information)	2608	635	426	603	332
Total Cases Sequenced	Total	3096	703	471	710	528